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Bessel Functions And Their Applications

Applications of Bessel functions. Bessel's equation arises when finding separable solutions to Laplace's equation and the Helmholtz equation in cylindrical or spherical coordinates. Bessel functions are therefore especially important for many problems of wave propagation and static potentials.

Bessel function - Wikipedia

Bessel functions of the first and second kind are the most commonly found forms of the Bessel function in applications. Many applications in hydrodynamics, elasticity, and oscillatory systems have solutions that are based on the Bessel functions. One such example is that of a uniform density chain fixed at one end undergoing small oscillations.

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Bessel functions are associated with a wide range of problems in important areas of mathematical physics. Bessel function theory is applied to problems of acoustics, radio physics, hydrodynamics, and atomic and nuclear physics. Bessel Functions and Their Applications consists of two parts.

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Bessel Functions and Their Applications: Solution to Schrödinger equation in a cylindrical function of the second kind and Hankel Functions. ISSN 2394-9651. International Journal of Novel Research in Physics Chemistry & Mathematics. Vol. 3, Issue 2, pp: (17-31), Month: May - August 2016, Available at: www.noveltyjournals.com.

Bessel Functions and Their Applications: Solution to ...

Different parts of Bessel function theory are widely used when solving problems of acoustics, radio physics, hydrodynamics, atomic and nuclear physics and so on. Applications of Bessel functions to heat conduction theory, including dynamical and linked problems are very numerous.

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the first kind in order to point out their relations with functions of the Bessel type. Indeed, it is easy to recognize that the Wright functions of the first kind turn out to be related to the well-known Bessel functions J_ν and I_ν for $\lambda = 1$ and $\mu = \nu + 1$. In fact, by using the well known series definitions for the Bessel functions and the

AND F. MAINARDI Abstract. arXiv:2007.13340v1 [math.CA] 27 ...

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In this paper, we aim to determine some results of the

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generalized Bessel–Maitland function in the field of fractional calculus. Here, some relations of the generalized Bessel–Maitland functions and the Mittag-Leffler functions are considered. We develop Saigo and Riemann–Liouville fractional integral operators by using the generalized Bessel–Maitland function, and results can be seen ...

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